



PubMed	Nucleotide	Protein	Genome	Structure	PopSet	Taxonomy	OMIM
Search		Protein	for			Go	Clear
Limits		Index		History		Clipboard	
Display	Default View	as	HTML	Save	Add to Clipboard		

**1: P29449 THIOREDOXIN H-TYPE 1 (TRX-H1)**

BLink, PubMed, Related Sequences, Taxonomy, LinkOut

LOCUS THH1\_TOBAC 126 aa PLN 01-OCT-2000  
 DEFINITION THIOREDOXIN H-TYPE 1 (TRX-H1).  
 ACCESSION P29449  
 PID g267124  
 VERSION P29449 GI:267124  
 DBSOURCE swissprot: locus THH1\_TOBAC, accession P29449:  
 class: standard.  
 created: Apr 1, 1993.  
 sequence updated: Apr 1, 1993.  
 annotation updated: Oct 1, 2000.  
 xrefs: gi: 20046, gi: 20047, gi: 100387  
 xrefs (non-sequence databases): HSSP P10599, InterPro IPR000063,  
 Pfam PF00085, PRINTS PR00421, PROSITE PS00194  
 KEYWORDS Redox-active center; Electron transport; Multigene family.  
 SOURCE common tobacco.  
 ORGANISM Nicotiana tabacum  
 Eukaryota; Viridiplantae; Embryophyta; Tracheophyta; Spermatophyta;  
 Magnoliophyta; eudicotyledons; core eudicots; Asteridae; euasterids  
 I; Solanales; Solanaceae; Nicotiana.  
 REFERENCE 1 (residues 1 to 126)  
 AUTHORS Marty,I. and Meyer,Y.  
 TITLE Nucleotide sequence of a cDNA encoding a tobacco thioredoxin  
 JOURNAL Plant Mol. Biol. 17 (1), 143-147 (1991)  
 MEDLINE 91329721  
 REMARK SEQUENCE FROM N.A.  
 STRAIN=CV. WHITE BURLEY

COMMENT

-----  
 This SWISS-PROT entry is copyright. It is produced through a  
 collaboration between the Swiss Institute of Bioinformatics and  
 the EMBL outstation - the European Bioinformatics Institute.  
 The original entry is available from <http://www.expasy.ch/sprot>  
 and <http://www.ebi.ac.uk/sprot>  
 -----

[FUNCTION] PARTICIPATES IN VARIOUS REDOX REACTIONS THROUGH THE  
 REVERSIBLE OXIDATION OF THE ACTIVE CENTER DITHIOL, TO A DISULFIDE.  
 THE H FORM IS KNOWN TO ACTIVATE A NUMBER OF CYTOSOLIC ENZYMES (BY  
 SIMILARITY).  
 [SUBCELLULAR LOCATION] CYTOPLASMIC (BY SIMILARITY).  
 [SIMILARITY] BELONGS TO THE THIOREDOXIN FAMILY. PLANT H-TYPE.

FEATURES Location/Qualifiers  
 source 1..126  
 /organism="Nicotiana tabacum"  
 /db\_xref="taxon:4097"  
 Protein 1..126  
 /product="THIOREDOXIN H-TYPE 1"  
 Bond bond(46,49)  
 /bond\_type="disulfide"  
 /note="REDOX-ACTIVE (BY SIMILARITY)."

ORIGIN

1 maandatsse egqvfgchkv eewneyfkkv vetkklvvvd ftaswcgpcr fiapiladia  
 61 kkmphviflk vdvdelktvs aewsveampt fvfkldgkev drvvgakkee lqqtivkhaa  
 121 patvta

//



PubMed	Nucleotide	Protein	Genome	Structure	PopSet	Taxonomy	OMIM		
Search		Protein	▼	for				Go	Clear
		Limits	Index	History	Clipboard				
Display	Default View	▼	as	HTML	▼	Save	Add to Clipboard		

☐ 1: CAA94534 **thioredoxin [Ricinus communis]** [BLink, Related Sequences, Nucleotide, Taxonomy](#)

LOCUS CAA94534 118 aa PLN 04-APR-1996  
 DEFINITION thioredoxin [Ricinus communis].  
 ACCESSION CAA94534  
 PID g1255954  
 VERSION CAA94534.1 GI:1255954  
 DBSOURCE embl locus RCTHIORXN, accession Z70677.1  
 KEYWORDS .  
 SOURCE castor bean.  
 ORGANISM Ricinus communis  
 Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;  
 euphyllophytes; Spermatophyta; Magnoliophyta; eudicotyledons;  
 Rosidae; Euphorbiales; Euphorbiaceae; Ricinus.  
 REFERENCE 1 (residues 1 to 118)  
 AUTHORS Szederkenyi, J., Dolgener, E. and Schobert, C.  
 TITLE cDNA expressed in Ricinus cotyledons  
 JOURNAL Unpublished  
 REFERENCE 2 (residues 1 to 118)  
 AUTHORS Dolgener, E.  
 TITLE Direct Submission  
 JOURNAL Submitted (04-APR-1996) Dolgener E., University of Bayreuth,  
 Department of Plant Physiology, Universitaetsstr.30, Bayreuth,  
 Germany, 95440  
 FEATURES Location/Qualifiers  
 source 1..118  
 /organism="Ricinus communis"  
 /cultivar="Sanguineus"  
 /db\_xref="taxon:3988"  
 /clone="pEDRH018"  
 /dev\_stage="seedling"  
 /tissue\_type="cotyledon"  
 /clone\_lib="lambda Excell"  
 Protein 1..118  
 /product="thioredoxin"  
 CDS 1..118  
 /db\_xref="SPTREMBL:Q43636"  
 /coded\_by="Z70677.1:23..379"  
 ORIGIN  
 1 maaeggqvig chtveawneq lqkgnndtkgl ivvdftaswc gpcrfiapfl aelakklpnv  
 61 tflkvdvdel ktvahewave smptfmflke gkimdkvvga kkdelqqtia khmatast  
 //

[Restrictions on Use](#) | [Write to the HelpDesk](#)  
[NCBI](#) | [NLM](#) | [NIH](#)



Protein

PubMed	Nucleotide	Protein	Genome	Structure	PopSet	Taxonomy	OMIM
Search		Protein	for		Go		Clear
Limits		Index		History		Clipboard	
Display	Default View	as	HTML	Save	Add to Clipboard		

# 1: P29448 THIOREDOXIN H-TYPE 1 (TRX-H-1)

BLINK, PubMed, Related Sequences, Taxonomy, LinkOut

LOCUS THH1\_ARATH 114 aa PLN 01-OCT-2000  
DEFINITION THIOREDOXIN H-TYPE 1 (TRX-H-1).  
ACCESSION P29448  
PID g267122  
VERSION P29448 GI:267122  
DBSOURCE swissprot: locus THH1\_ARATH, accession P29448:  
class: standard.  
created: Apr 1, 1993.  
sequence updated: Apr 1, 1993.  
annotation updated: Oct 1, 2000.  
xrefs: gi: gi: 16551, gi: gi: 16552, gi: gi: 1388079, gi: gi: 1388080, gi: gi: 6782245, gi: gi: 6562255, gi: gi: 478400, gi: gi: 322606  
xrefs (non-sequence databases): HSSP P80028, InterPro IPR000063, Pfam PF00085, PRINTS PR00421, PROSITE PS00194  
KEYWORDS Redox-active center; Electron transport; Multigene family.  
SOURCE thale cress.  
ORGANISM Arabidopsis thaliana  
Eukaryota; Viridiplantae; Embryophyta; Tracheophyta; Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; Rosidae; eurosids II; Brassicales; Brassicaceae; Arabidopsis.  
REFERENCE 1 (residues 1 to 114)  
AUTHORS Rivera-Madrid,R., Marinho,P., Brigidou,C., Chartier,Y. and Meyer,Y.  
TITLE Nucleotide sequence of a cDNA clone encoding an Arabidopsis thaliana thioredoxin h  
JOURNAL Plant Physiol. 102 (1), 327-328 (1993)  
MEDLINE 94151431  
REMARK SEQUENCE FROM N.A.  
REFERENCE 2 (residues 1 to 114)  
AUTHORS Sahrawy,M., Hecht,V., Lopez-Jaramillo,J., Chueca,A., Chartier,Y. and Meyer,Y.  
TITLE Intron position as an evolutionary marker of thioredoxins and thioredoxin domains  
JOURNAL J. Mol. Evol. 42 (4), 422-431 (1996)  
MEDLINE 96215867  
REMARK SEQUENCE FROM N.A.  
STRAIN=CV. LANDSBERG ERECTA  
REFERENCE 3 (residues 1 to 114)  
AUTHORS Vitale,D., Liguori,R., Flores,M., Argiriou,A., De Simone,V., Mewes,H.-W., Lemcke,K., Mayer,K.F.X., Quetier,F. and Salanoubat,M.  
TITLE Direct Submission  
JOURNAL Submitted (??-NOV-1999) to the EMBL/GenBank/DDBJ databases  
REMARK SEQUENCE FROM N.A.  
STRAIN=CV. COLUMBIA  
COMMENT  
This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation - the European Bioinformatics Institute. The original entry is available from <http://www.expasy.ch/sprot> and <http://www.ebi.ac.uk/sprot>

[FUNCTION] PARTICIPATES IN VARIOUS REDOX REACTIONS THROUGH THE REVERSIBLE OXIDATION OF THE ACTIVE CENTER DITHIOL, TO A DISULFIDE. THE H FORM IS KNOWN TO ACTIVATE A NUMBER OF CYTOSOLIC ENZYMES (BY

SIMILARITY) .  
[SUBCELLULAR LOCATION] CYTOPLASMIC (BY SIMILARITY) .  
[SIMILARITY] BELONGS TO THE THIOREDOXIN FAMILY. PLANT H-TYPE.

FEATURES

source	Location/Qualifiers
	1..114
	/organism="Arabidopsis thaliana"
	/db_xref="taxon:3702"
Protein	1..114
	/product="THIOREDOXIN H-TYPE 1"
Bond	bond(40,43)
	/bond_type="disulfide"
	/note="REDOX-ACTIVE (BY SIMILARITY)."

ORIGIN

1	maseegqvia	chtvetwneq	lqkanesktl	vvvdftaswc	gpcrfiapff	adlakklpnv
61	lflkvdtde	l	kvsadwaiq	amptfmflke	gkildkvvga	kkdelqstia khla

//

[Restrictions on Use](#) | [Write to the HelpDesk](#)  
[NCBI](#) | [NLM](#) | [NIH](#)